**S.ID. 1:** Summarize, represent and interpret data on a single count or measured variable.

**FOCUS:**

* Graph numerical data on a real number line, using dot plots, histograms, and box plots.
* Describe and give a simple interpretation of a graphical representation of data.
* Determine which type of data plot would be most appropriate for a specific situation.

**Development**

In the context of exploring attributes that determine what type of data plot to use, students will………..

* Ideas: explore ways of representing data
* Strategies: given data sets experiment with various ways to display data
* Representations: share and justify why they chose the particular data plot

**Solidify**

In the context of collecting and examining data sets involving,

1. Day of the week the students were born on
2. Test scores
3. Number of siblings their family

the students will………..

* Concepts: create all three types of data plots for each set of data.

Determine which method best represents each type of data.

Explain why their method is the best for each type of data.

* Algorithms: find medians, quartiles, maximum, minimum, and outliers
* Tools: data gathered by students and data plots created by students

**Practice**

In the context of collecting and evaluating their own data and analyzing how to best represent that data, the students will …………

* Definitions and Properties: define data plots including, dot (line) plots, histograms, and box plots.
* Procedures: related text book problems.
* Models: Ask students the questions,

1) What kind of data do you want to know about?

2)What do you want to know about this data?

**TASK:**

1. collect your own data, relating to your question. (something you want to know about)
2. select and create the best data plot to use to display your data.
3. share your results with the class and justify why you choose to represent your data the way you did.